

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/534,099A  
Source: PT  
Date Processed by STIC: 7/14/06

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PCT

RAW SEQUENCE LISTING DATE: 07/14/2006  
 PATENT APPLICATION: US/10/534,099A TIME: 10:18:51

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 Output Set: N:\CRF4\07142006\J534099A.raw

3 <110> APPLICANT: DE CROMBRUGGHE, BENOIT  
 4 AKIYAMA, HARUHIKO  
 6 <120> TITLE OF INVENTION: HA4, A NEW OSTEOBLAST- AND CHONDROCYTE-SPECIFIC SMALL  
 7 SECRETED PEPTIDE, COMPOSITIONS AND METHODS OF USE  
 9 <130> FILE REFERENCE: UTSC:772US  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/534,099A  
 12 <141> CURRENT FILING DATE: 2005-05-06  
 14 <150> PRIOR APPLICATION NUMBER: PCT/US2003/035139  
 15 <151> PRIOR FILING DATE: 2003-11-04  
 17 <150> PRIOR APPLICATION NUMBER: 60/423,690  
 18 <151> PRIOR FILING DATE: 2002-11-04  
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 43 ttc ctt gtg ctg ctg ctt cag ttg tcc gca ccg tcc agc gcc tct 96  
 44 Phe Leu Val Leu Leu Leu Gln Leu Ser Ala Pro Ser Ser Ala Ser  
 45 20 25 30  
 47 gag aac ccc aag gtg aag caa aaa gcg ctg atc cgg cag agg gag gtg 144  
 48 Glu Asn Pro Lys Val Lys Gln Lys Ala Leu Ile Arg Gln Arg Glu Val  
 49 35 40 45  
 51 gta gac ctg tat aat gga atg tgt cta caa gga cca gca gga gtt ccc 192  
 52 Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly Val Pro  
 53 50 55 60  
 55 ggt cgt gat ggg agc cct ggg gcc aat ggc att cct ggc aca cct ggc 240  
 56 Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly Thr Pro Gly  
 57 65 70 75 80  
 59 atc cca ggt cgg gat gga ttc aaa ggg gaa aag gga gaa tgc tta agg 288  
 60 Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys Leu Arg  
 61 85 90 95  
 63 gaa agc ttt gag gag tcc tgg acc cca aac tat aag cag tgt tcg tgg 336

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65 100 105 110  
67 agt tcg ctg aac tat ggc ata gat ctt ggg aaa att gcg gag tgt aca 384  
68 Ser Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu Cys Thr  
69 115 120 125  
71 ttc acg aag atg cgc tcc aac agt gct ctg cga gtt ctg ttc agt ggc 432  
72 Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser Gly  
73 130 135 140  
75 tca ctt cgg ctc aaa tgc agg aat gca tgc tgt cag cgc tgg tat ttt 480  
76 Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr Phe  
77 145 150 155 160  
79 aca ttt aat gga gct gaa tgt tca gga cct ctt ccc atc gaa gcc atc 528  
80 Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile  
81 165 170 175  
83 atc tat ctg gac caa gga agc cct gag tta aat tca act att aat att 576  
84 Ile Tyr Leu Asp Gln Gly Ser Pro Glu Leu Asn Ser Thr Ile Asn Ile  
85 180 185 190  
87 cat cgt act tcc tct gtg gaa gga ctc tgt gaa ggg att ggt gct gga 624  
88 His Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala Gly  
89 195 200 205  
91 ttg gta gat gtg gcc atc tgg gtt ggc acc tgt tca gat tac ccc aaa 672  
92 Leu Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys  
93 210 215 220  
95 gga gac gct tct act gga tgg aat tcc gtg tct cgc atc atc att gaa 720  
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117 20 25 30  
118 Glu Asn Pro Lys Val Lys Gln Lys Ala Leu Ile Arg Gln Arg Glu Val  
119 35 40 45  
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121 50 55 60  
122 Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly Thr Pro Gly  
123 65 70 75 80  
124 Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys Leu Arg  
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126 Glu Ser Phe Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys Ser Trp

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 129 115 120 125  
 130 Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser Gly  
 131 130 135 140  
 132 Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr Phe  
 133 145 150 155 160  
 134 Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile  
 135 165 170 175  
 136 Ile Tyr Leu Asp Gln Gly Ser Pro Glu Leu Asn Ser Thr Ile Asn Ile  
 137 180 185 190  
 138 His Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala Gly  
 139 195 200 205  
 140 Leu Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys  
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 194 ttatcttggtt gatattgatt gtcaatctat ttaaaaatgtat ggtatgtcat aggtcaatta 1920  
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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:240

M:341 Repeated in SeqNo=3